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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/566,944	Thorsten Zank	12810-00193-US

INTERNATIONAL APPLICATION NO.

PCT/EP04/07957

I.A. FILING DATE

PRIORITY DATE

07/16/2004

08/01/2003

23416

CONNOLLY BOVE LODGE & HUTZ, LLP
 P O BOX 2207
 WILMINGTON, DE 19899

CONFIRMATION NO. 5346

371 FORMALITIES LETTER



OC000000023991140

Date Mailed: 05/22/2007

NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
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KAREN R MCLEAN

Telephone: (703) 308-9140 EXT 214

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/566,944	PCT/EP04/07957	12810-00193-US

FORM PCT/DO/EO/922 (371 Formalities Notice)

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____

Source: _____

Date Processed by STIC: _____

10/566,944
JFWP
02/14/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/566,944

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/10/566,944

TIME: 12:55:17

Input Set : F:\Sequence listing (12810-00193-US).txt

Output Set: N:\CRF4\02142006\J566944.raw

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3 <110> APPLICANT: Zank, Thorsten
4      Bauer, Jorg
5      Cirpus, Petra
6      Abbadi, Amine
7      Heinz, Ernst
8      Qiu, Xiao
9      Vrinten, Patricia
10     Sperling, Petra
11     Domergue, Frederic
12     Meyer, Astrid
13     Kirsch, Jelena
15 <120> TITLE OF INVENTION: METHOD FOR THE PRODUCTION OF MULTIPLE-UNSATURATED FATTY
ACIDS IN
16     TRANSGENIC ORGANISMS
18 <130> FILE REFERENCE: 12810-00193-US
2--> 20 <140> CURRENT APPLICATION NUMBER: US/10/566,944
2--> 20 <141> CURRENT FILING DATE: 2006-02-01
20 <150> PRIOR APPLICATION NUMBER: DE 103 35 992.3
21 <151> PRIOR FILING DATE: 2003-08-01
23 <150> PRIOR APPLICATION NUMBER: DE 103 44 557.9
24 <151> PRIOR FILING DATE: 2003-09-24
26 <150> PRIOR APPLICATION NUMBER: DE 103 47 869.8
27 <151> PRIOR FILING DATE: 2003-10-10
29 <150> PRIOR APPLICATION NUMBER: DE 103 59 593.7
30 <151> PRIOR FILING DATE: 2003-12-18
32 <150> PRIOR APPLICATION NUMBER: DE 10 2004 009 457.8
33 <151> PRIOR FILING DATE: 2004-02-27
35 <150> PRIOR APPLICATION NUMBER: DE 10 2004 012 370.5
36 <151> PRIOR FILING DATE: 2004-03-13
38 <150> PRIOR APPLICATION NUMBER: DE 10 2004 024 014.0
39 <151> PRIOR FILING DATE: 2004-05-14
41 <160> NUMBER OF SEQ ID NOS: 192
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47 <211> LENGTH: 1266
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48

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62	Tyr	Asp	Val	Ser	Ala	Trp	Val	Asn	Phe	His	Pro	Gly	Gly	Ala	Glu	Ile	
63				20				25				30					
65	ata	gag	aat	tac	caa	gga	agg	gat	gcc	act	gat	gcc	ttc	atg	gtt	atg	144
66	Ile	Glu	Asn	Tyr	Gln	Gly	Arg	Asp	Ala	Thr	Asp	Ala	Phe	Met	Val	Met	
68			35					40				45					
70	cac	tct	caa	gaa	gcc	ttc	gac	aag	ctc	aag	cgc	atg	ccc	aaa	atc	aat	192
71	His	Ser	Gln	Glu	Ala	Phe	Asp	Lys	Leu	Lys	Arg	Met	Pro	Lys	Ile	Asn	
72		50					55				60						
74	ccc	agt	tct	gag	ttg	cca	ccc	cag	gct	gca	gtg	aat	gaa	gct	caa	gag	240
75	Pro	Ser	Ser	Glu	Leu	Pro	Pro	Gln	Ala	Ala	Val	Asn	Glu	Ala	Gln	Glu	
76	65					70			75			80					
78	gat	ttc	cgg	aag	ctc	cga	gaa	gag	ttg	atc	gca	act	ggc	atg	ttt	gat	288
79	Asp	Phe	Arg	Lys	Leu	Arg	Glu	Glu	Leu	Ile	Ala	Thr	Gly	Met	Phe	Asp	
80				85				90				95					
82	gcc	tcc	ccc	ctc	tgg	tac	tca	tac	aaa	atc	agc	acc	aca	ctg	ggc	ctt	336
83	Ala	Ser	Pro	Leu	Trp	Tyr	Ser	Tyr	Lys	Ile	Ser	Thr	Thr	Leu	Gly	Leu	
84			100					105				110					
86	gga	gtg	ctg	ggt	tat	ttc	ctg	atg	gtt	cag	tat	cag	atg	tat	ttc	att	384
87	Gly	Val	Leu	Gly	Tyr	Phe	Leu	Met	Val	Gln	Tyr	Gln	Met	Tyr	Phe	Ile	
88			115					120				125					
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91	Gly	Ala	Val	Leu	Leu	Gly	Met	His	Tyr	Gln	Gln	Met	Gly	Trp	Leu	Ser	
92		130					135				140						
94	cat	gac	att	tgc	cac	cac	cag	act	ttc	aag	aac	cgg	aac	tgg	aac	aac	480
95	His	Asp	Ile	Cys	His	His	Gln	Thr	Phe	Lys	Asn	Arg	Asn	Trp	Asn	Asn	
96	145			150				155				160					
98	ctc	gtg	gga	ctg	gta	ttt	ggc	aat	ggt	ctg	caa	ggt	ttt	tcc	gtg	aca	528
99	Leu	Val	Gly	Leu	Val	Phe	Gly	Asn	Gly	Leu	Gln	Gly	Phe	Ser	Val	Thr	
101			165					170				175					
103	tgc	tgg	aag	gac	aga	cac	aat	gca	cat	cat	tcg	gca	acc	aat	gtt	caa	576
104	Cys	Trp	Lys	Asp	Arg	His	Asn	Ala	His	His	Ser	Ala	Thr	Asn	Val	Gln	
105			180					185				190					
107	ggg	cac	gac	cct	gat	att	gac	aac	ctc	ccc	ctc	tta	gcc	tgg	tct	gag	624
108	Gly	His	Asp	Pro	Asp	Ile	Asp	Asn	Leu	Pro	Leu	Leu	Ala	Trp	Ser	Glu	
109			195					200				205					
111	gat	gac	gtc	aca	cgg	gcg	tca	ccg	att	tcc	cgc	aag	ctc	att	cag	ttc	672
112	Asp	Asp	Val	Thr	Arg	Ala	Ser	Pro	Ile	Ser	Arg	Lys	Leu	Ile	Gln	Phe	
113		210					215				220						
115	cag	cag	tat	tat	ttc	ttg	gtc	atc	tgt	atc	ttg	ttg	cgg	ttc	att	tgg	720
116	Gln	Gln	Tyr	Tyr	Phe	Leu	Val	Ile	Cys	Ile	Leu	Leu	Arg	Phe	Ile	Trp	
117	225					230			235			240					
119	tgt	ttc	cag	agc	gtg	ttg	acc	gtg	cgc	agt	ctg	aag	gac	aga	gat	aac	768
120	Cys	Phe	Gln	Ser	Val	Leu	Thr	Val	Arg	Ser	Leu	Lys	Asp	Arg	Asp	Asn	
121			245					250				255					
123	caa	ttc	tat	cgc	tct	cag	tat	aag	aag	gag	gcc	att	ggc	ctc	gcc	ctg	816
124	Gln	Phe	Tyr	Arg	Ser	Gln	Tyr	Lys	Lys	Glu	Ala	Ile	Gly	Leu	Ala	Leu	
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DATE: 02/14/2006

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Input Set : F:\Sequence listing (12810-00193-US).txt

Output Set: N:\CRF4\02142006\J566944.raw

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129      275      280      285
131 ctc aca tcg ctg ttg gta ttt ttc gtt tcg gag ctg gtt ggc ggc ttc      912
132 Leu Thr Ser Leu Leu Val Phe Phe Val Ser Glu Leu Val Gly Gly Phe
135      290      295      300
137 ggc att gcg atc gtg gtg ttc atg aac cac tac cca ctg gag aag atc      960
138 Gly Ile Ala Ile Val Val Phe Met Asn His Tyr Pro Leu Glu Lys Ile
139 305      310      315      320
141 ggg gac tcg gtc ttg gat ggc cat gga ttc tcg gtt ggc cag atc cat      1008
142 Gly Asp Ser Val Trp Asp Gly His Gly Phe Ser Val Gly Gln Ile His
143      325      330      335
145 gag acc atg aac att cgg cga ggg att atc aca gat tgg ttt ttc gga      1056
146 Glu Thr Met Asn Ile Arg Arg Gly Ile Ile Thr Asp Trp Phe Phe Gly
147      340      345      350
149 ggc ttg aac tac cag atc gag cac cat ttg tgg ccg acc ctc cct cgc      1104
150 Gly Leu Asn Tyr Gln Ile Glu His His Leu Trp Pro Thr Leu Pro Arg
151      355      360      365
153 cac aac ctg aca gcg gtt agc tac cag gtg gaa cag ctg tgc cag aag      1152
154 His Asn Leu Thr Ala Val Ser Tyr Gln Val Glu Gln Leu Cys Gln Lys
155      370      375      380
157 cac aac ctg ccg tat cgg aac ccg ctg ccc cat gaa ggg ttg gtc atc      1200
158 His Asn Leu Pro Tyr Arg Asn Pro Leu Pro His Glu Gly Leu Val Ile
159 385      390      395      400
161 ctg ctg cgc tat ctg gcg gtg ttc gcc cgg atg gcg gag aag caa ccc      1248
162 Leu Leu Arg Tyr Leu Ala Val Phe Ala Arg Met Ala Glu Lys Gln Pro
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187      35      40      45
190 His Ser Gln Glu Ala Phe Asp Lys Leu Lys Arg Met Pro Lys Ile Asn
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194 Pro Ser Ser Glu Leu Pro Pro Gln Ala Ala Val Asn Glu Ala Gln Glu
195 65      70      75      80
198 Asp Phe Arg Lys Leu Arg Glu Glu Leu Ile Ala Thr Gly Met Phe Asp
199      85      90      95
202 Ala Ser Pro Leu Trp Tyr Ser Tyr Lys Ile Ser Thr Thr Leu Gly Leu
203      100      105      110

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PATENT APPLICATION: US/10/566,944

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214 His Asp Ile Cys His His Gln Thr Phe Lys Asn Arg Asn Trp Asn Asn
215 145      150      155      160
218 Leu Val Gly Leu Val Phe Gly Asn Gly Leu Gln Gly Phe Ser Val Thr
219      165      170      175
222 Cys Trp Lys Asp Arg His Asn Ala His His Ser Ala Thr Asn Val Gln
223      180      185      190
226 Gly His Asp Pro Asp Ile Asp Asn Leu Pro Leu Leu Ala Trp Ser Glu
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230 Asp Asp Val Thr Arg Ala Ser Pro Ile Ser Arg Lys Leu Ile Gln Phe
231      210      215      220
234 Gln Gln Tyr Tyr Phe Leu Val Ile Cys Ile Leu Leu Arg Phe Ile Trp
235 225      230      235      240
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242 Gln Phe Tyr Arg Ser Gln Tyr Lys Lys Glu Ala Ile Gly Leu Ala Leu
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246 His Trp Thr Leu Lys Ala Leu Phe His Leu Phe Phe Met Pro Ser Ile
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250 Leu Thr Ser Leu Leu Val Phe Phe Val Ser Glu Leu Val Gly Gly Phe
251      290      295      300
254 Gly Ile Ala Ile Val Val Phe Met Asn His Tyr Pro Leu Glu Lys Ile
255 305      310      315      320
258 Gly Asp Ser Val Trp Asp Gly His Gly Phe Ser Val Gly Gln Ile His
259      325      330      335
262 Glu Thr Met Asn Ile Arg Arg Gly Ile Ile Thr Asp Trp Phe Phe Gly
263      340      345      350
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267      355      360      365
270 His Asn Leu Thr Ala Val Ser Tyr Gln Val Glu Gln Leu Cys Gln Lys
271      370      375      380
274 His Asn Leu Pro Tyr Arg Asn Pro Leu Pro His Glu Gly Leu Val Ile
275 385      390      395      400
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293 <222> LOCATION: (1)..(777)
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RAW SEQUENCE LISTING

DATE: 02/14/2006

PATENT APPLICATION: US/10/566,944

TIME: 12:55:17

Input Set : P:\Sequence listing (12810-00193-US).txt

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301	gac	ccg	gaa	atc	ctc	att	ggc	acc	ttc	tcg	tac	ttg	cta	ctc	aaa	ccg	96
302	Asp	Pro	Glu	Ile	Leu	Ile	Gly	Thr	Phe	Ser	Tyr	Leu	Leu	Leu	Lys	Pro	
303				20					25					30			
305	ctg	ctc	cgc	aat	tcc	ggg	ctg	gtg	gat	gag	aag	aag	ggc	gca	tac	agg	144
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307			35					40					45				
309	acg	tcc	atg	atc	tgg	tac	aac	gtt	ctg	ctg	gcg	ctc	ttc	tct	gcg	ctg	192
310	Thr	Ser	Met	Ile	Trp	Tyr	Asn	Val	Leu	Leu	Ala	Leu	Phe	Ser	Ala	Leu	
311		50					55					60					
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319				85					90					95			
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330	Arg	Val	Ser	Phe	Leu	Gln	Ala	Phe	His	His	Phe	Gly	Ala	Pro	Trp	Asp	
331		130					135					140					
333	gtg	tac	ctc	ggc	att	cgg	ctg	cac	aac	gag	ggc	gta	tgg	atc	ttc	atg	480
334	Val	Tyr	Leu	Gly	Ile	Arg	Leu	His	Asn	Glu	Gly	Val	Trp	Ile	Phe	Met	
335	145				150					155					160		
337	ttt	ttc	aac	tcg	ttc	att	cac	acc	atc	atg	tac	acc	tac	tac	ggc	ctc	528
338	Phe	Phe	Asn	Ser	Phe	Ile	His	Thr	Ile	Met	Tyr	Thr	Tyr	Tyr	Gly	Leu	
339			165					170					175				
341	acc	gcc	gcc	ggg	tat	aag	ttc	aag	gcc	aag	ccg	ctc	atc	acc	gcg	atg	576
342	Thr	Ala	Ala	Gly	Tyr	Lys	Phe	Lys	Ala	Lys	Pro	Leu	Ile	Thr	Ala	Met	
343			180					185					190				
345	cag	atc	tgc	cag	ttc	gtg	ggc	ggc	ttc	ctg	ttg	gtc	tgg	gac	tac	atc	624
346	Gln	Ile	Cys	Gln	Phe	Val	Gly	Gly	Phe	Leu	Leu	Val	Trp	Asp	Tyr	Ile	
347			195				200					205					
349	aac	gtc	ccc	tgc	ttc	aac	tcg	gac	aaa	ggg	aag	ttg	ttc	agc	tgg	gct	672
350	Asn	Val	Pro	Cys	Phe	Asn	Ser	Asp	Lys	Gly	Lys	Leu	Phe	Ser	Trp	Ala	
351		210					215					220					
353	ttc	aac	tat	gca	tac	gtc	ggc	tcg	gtc	ttc	ttg	ctc	ttc	tgc	cac	ttt	720
354	Phe	Asn	Tyr	Ala	Tyr	Val	Gly	Ser	Val	Phe	Leu	Leu	Phe	Cys	His	Phe	
355	225				230					235					240		
357	ttc	tac	cag	gac	aac	ttg	gca	acg	aag	aaa	tcg	gcc	aag	gcg	ggc	aag	768
358	Phe	Tyr	Gln	Asp	Asn	Leu	Ala	Thr	Lys	Lys	Ser	Ala	Lys	Ala	Gly	Lys	
359				245					250						255		
361	cag	ctc	tag														777

<210> SEQ ID NO 115
 <211> LENGTH: 13
 <212> TYPE: PRT
 <213> ORGANISM: Unknown
 <220> FEATURE:
 <221> NAME/KEY: MISC_FEATURE
 <222> LOCATION: (1)..(13)

<223> OTHER INFORMATION: Xaa in the sequence at position 2, 3, 4, 6, 7, 8 and 9
 has the meaning given in Table A.

<220> FEATURE:
 <221> NAME/KEY: MISC_FEATURE
 <222> LOCATION: (1)..(13)
 <223> OTHER INFORMATION: Consensus
 <400> SEQUENCE: 115

Asn Xaa Xaa Xaa His Xaa Xaa Met Tyr Xaa Tyr Tyr Xaa
 1 5 10

Tyr at this
 Location

Invalid Response. 'Xaa' Represents
 Single Amino Acid. P/s see Item
 #9 in Error
 Summary Sheet.

F41

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/566,944

DATE: 02/14/2006
TIME: 12:55:18

Input Set : F:\Sequence listing (12810-00193-US).txt
Output Set: N:\CRF4\02142006\J566944.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:115; Xaa Pos. 2,3,4,6,7,10,13
Seq#:116; Xaa Pos. 3,4,5,6
Seq#:139; Xaa Pos. 3,4
Seq#:140; Xaa Pos. 2,3,5,6
Seq#:141; Xaa Pos. 3
Seq#:142; Xaa Pos. 5,6
Seq#:185; N Pos. 3,18
Seq#:186; N Pos. 3,9,12,15,21

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:115; Line(s) 12392
Seq#:116; Line(s) 12415
Seq#:140; Line(s) 13593
Seq#:142; Line(s) 13635

VERIFICATION SUMMARY

DATE: 02/14/2006

PATENT APPLICATION: US/10/566,944

TIME: 12:55:18

Input Set : F:\Sequence listing (12810-00193-US).txt

Output Set: N:\CRF4\02142006\J566944.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application No
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:12403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:12426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
L:13581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:0
L:13602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:0
L:13623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:0
L:13646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:14407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0
L:14426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:186 after pos.:0